

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. - 4. (cancelled).

5. (twice amended): An information data recording apparatus for recording information data on a recording medium having a recording track on which the information data is to be recorded and prerecorded data which are preformed on a portion different from the information recording track at first periodic interval, said apparatus comprising:

a memory which temporarily stores the information data to be recorded on the recording medium and supplies the information data in synchronism with a clock signal;

a prerecorded data signal reproducing circuit which detects the prerecorded data from the recording medium and generates a prerecorded data signal;

a clock signal generating circuit which generates the clock signal based on the prerecorded data signal;

a recording device which records the information data supplied from the memory on the recording track of the recording medium; and

a phase comparator which generates a phase difference signal relative to the prerecorded data signal by a phase comparison with a reference signal that has an interval shorter than an interval of a synchronization signal included in the prerecorded data signal, wherein said clock

signal generating circuit generates said clock signal using the phase difference signal generated by said phase comparator.

15. (twice amended): An information data recording apparatus for recording information data on a recording medium having a recording track on which the information data is to be recorded and prerecorded data which are preformed on a portion different from the information recording track, the prerecorded data including first prerecorded data preformed at a first periodic interval which corresponds to m , m being an integer, times of a unit period that is specified by a recording format used for recording the information data, and second prerecorded data preformed at a second interval which corresponds to k , k being an integer smaller than m , times of the unit period, said apparatus comprising:

a memory which temporarily stores the information data to be recorded on the recording medium and supplies the information data in synchronism with a clock signal;

a prerecorded data signal reproducing circuit which detects the prerecorded data from the recording medium and generates a prerecorded data signal;

a clock signal generating circuit which generates the clock signal based on the prerecorded data signal;

a recording device which records the information data supplied from the memory on the recording track of the recording medium; and

a phase comparator which generates a phase difference signal relative to the prerecorded data signal by a phase comparison with a reference signal that has an interval shorter than an

interval of a synchronization signal included in the prerecorded data signal, wherein said clock signal generating circuit generates said clock signal using the phase difference signal generated by said phase comparator.

23. (twice amended): A method for recording information data on a recording medium having a recording track on which the information data is to be recorded and prerecorded data which are preformed on a portion different from the information recording track at first periodic interval, said method comprising the steps of:
temporarily storing the information data to be recorded on the recording medium and supplying the information data in synchronism with a clock signal;
detecting the prerecorded data from the recording medium and generating a prerecorded data signal;
generating the clock signal based on the prerecorded data signal;
recording the information data on the recording track of the recording medium; and
generating a phase difference signal relative to the prerecorded data signal by a phase comparison with a reference signal that has an interval shorter than an interval of a synchronization signal included in the prerecorded data signal, wherein said clock signal is generated using said phase difference signal.

33. (twice amended): A method for recording information data on a recording medium having a recording track on which the information data is to be recorded and

prerecorded data which are preformed on a portion different from the information recording track, the prerecorded data including first prerecorded data preformed at a first periodic interval which corresponds to m , m being an integer, times of a unit period that is specified by a recording format used for recording the information data, and second prerecorded data preformed at a second interval which corresponds to k , k being an integer smaller than m , times of the unit period, said method comprising the steps of:

temporarily storing the information data to be recorded on the recording medium and supplying the information data in synchronism with a clock signal;

detecting the prerecorded data from the recording medium and generating a prerecorded data signal;

generating the clock signal based on the prerecorded data signal;

recording the information data supplied from the memory on the recording track of the recording medium; and

generating a phase difference signal relative to the prerecorded data signal by a phase comparison with a reference signal that has an interval shorter than an interval of a synchronization signal included in the prerecorded data signal, wherein said clock signal is generated using said phase difference signal.